

Listing of Claims

1-43 (Cancelled)

44. (New) A method for isolating a defined and consistent amount of DNA from multiple samples comprising:

- (a) contacting each sample with a discrete amount of a silica-containing solid support, each sample comprising DNA in excess of the binding capacity of the discrete amount of silica-containing solid support, under conditions that allow reversible binding of the defined amount of DNA to the solid support; and
- (b) separating each sample from the support to isolate a defined and consistent amount of DNA from each sample.

45. (New) The method of claim 44, further comprising:

- (c) separating the DNA of step (b) from the support.

46. (New) The method of claim 44, wherein the silica-containing solid support comprises silica magnetic particles.

47. (New) The method of claim 45, wherein the silica magnetic particles are porous.

48. (New) The method of claim 45, wherein the silica magnetic particles are nonporous.

49. (New) The method of claim 45, wherein the silica magnetic particles are siliceous-oxide coated magnetic particles.

50. (New) The method of claim 44, wherein the medium comprises a chaotropic salt.

51. (New) The method of claim 50, wherein the chaotropic salt comprises guanidine thiocyanate.

52. (New) The method of claim 44, wherein the DNA is genomic DNA.

53. (New) The method of claim 44, wherein the DNA is plasmid DNA.

54. (New) The method of claim 44, further comprising analyzing the defined amount of DNA of step (b).

55. (New) The method of claim 44 wherein the medium is a solid medium.

56. (New) The method of claim 55 wherein the medium is paper.
57. (New) The method of claim 55, wherein the solid medium is a swab.
58. (New) The method of claim 55 wherein the medium is a forensic sample.
59. (New) The method of claim 55, wherein the medium is contacted with a chaotropic salt.
60. (New) The method of claim 59, wherein the contacted medium is heated to a temperature of from about 60° to about 100°C.
61. (New) The method of claim 44, further comprising determining at least a portion of the sequence the isolated DNA.
62. (New) The method of claim 45, further comprising washing the solid support prior to step (c).
63. (New) The method of claim 62, wherein the solid support is washed with a solution comprising an alcohol and a salt.
64. (New) The method of claim 45, wherein the DNA of step (c) is separated by eluting with water.
65. (New) The method of 50, wherein the concentration of chaotropic salt is between about 0.1 M and 7 M.
66. (New) A method of amplifying DNA comprising amplifying at least one sequence within the defined amount of DNA of claim 44.
67. (New) The method of claim 66, wherein the at least one sequence comprises at least one short tandem repeat sequence.
68. (New) The method of claim 67, wherein the at least one short tandem repeat sequence comprises the CODIS loci.

69. (New) A kit for isolating a defined and consistent amount of a DNA from multiple samples according to claim 44, the kit comprising:

a discrete amount of silica magnetic particles having the capacity to reversibly bind a defined amount of the DNA from the samples, the samples comprising DNA in excess of the binding capacity of the discrete amount of silica magnetic particles.

70. (New) The kit of claim 69 wherein the medium comprises blood.

71. (New) The kit of claim 69, wherein the medium comprises a solid support.

72. (New) The kit of claim 69, further comprising a chaotropic salt.

73. (New) The kit of claim 69, wherein the silica magnetic particles are provided in a solution comprising the chaotropic salt.

74. (New) The kit of claim 69 further comprising a wash solution.